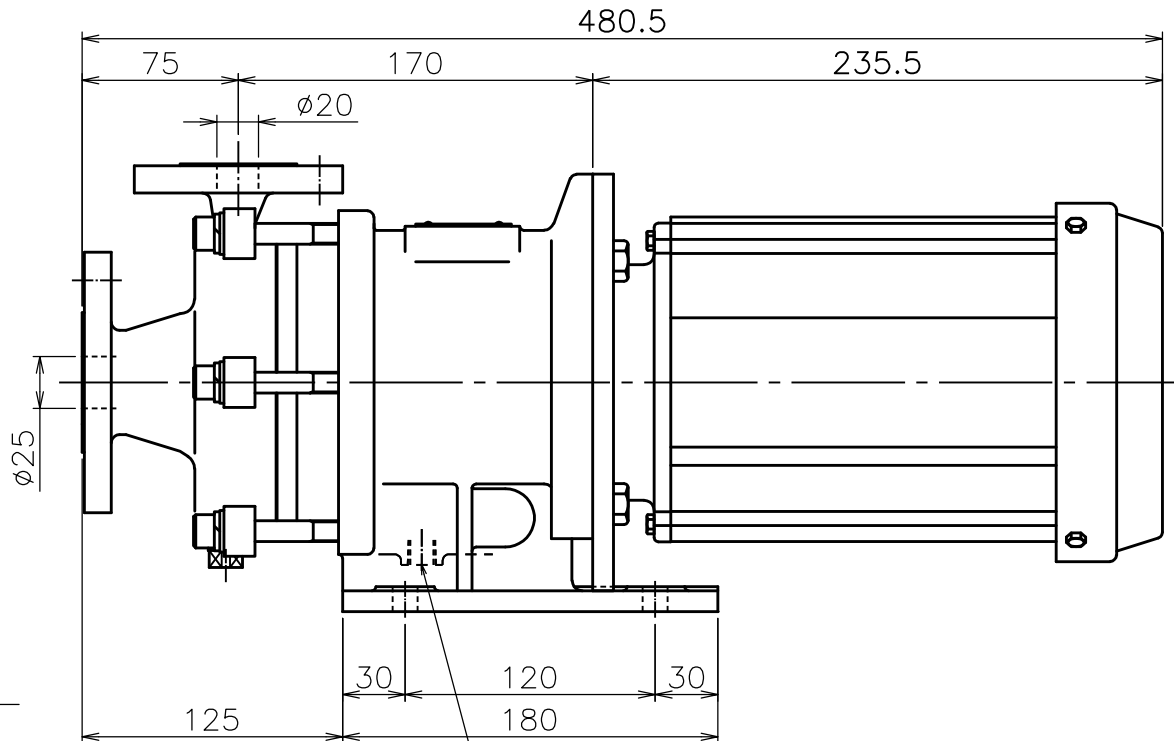
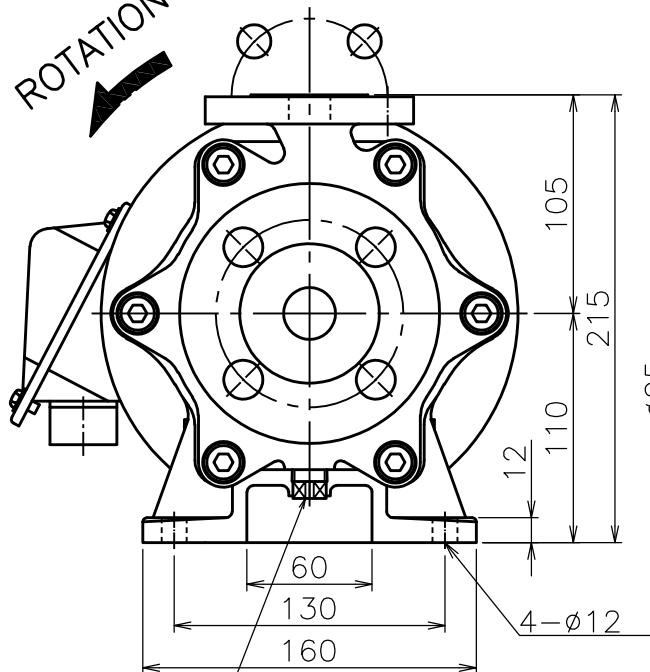
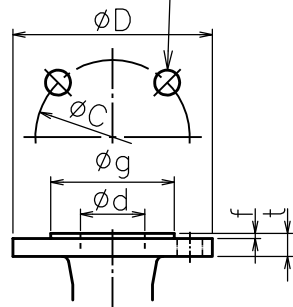


ROTATION



BOLT HOLES
 n-φh



MOTOR	
FRAME SIZE	OUTPUT (kW)
80M	0.75

MASS APPROX (kg)		
PUMP	MOTOR	TOTAL
22	13.5	35.5

- ① CASING DRAIN ; Rc3/8 (PLUG)
- ② FRAME ADAPTER DRAIN ; Rc1/4 (OPEN)

Item No. : _____
 Pump Name : _____

FLANGE DIMENSIONS * SMOOTH FINISH (mm)

RATING		SIZE(d)	D	t	f	g	C	n	h
JIS 10K RF	SUCTION	25mm	125	14	1	67	90	4	19
	DISCHARGE	20mm	100	14	1	56	75	4	15

REV.	
▲ 2020.4.20 Y.K	
▲ 2021.07.07 A.E	
APP'D T.Shimayoshi	CH. A.Endo
CHIEF M.Murakami	DWN.M.Murakami
CH'D S.Okamoto	DATE 2019.04.09

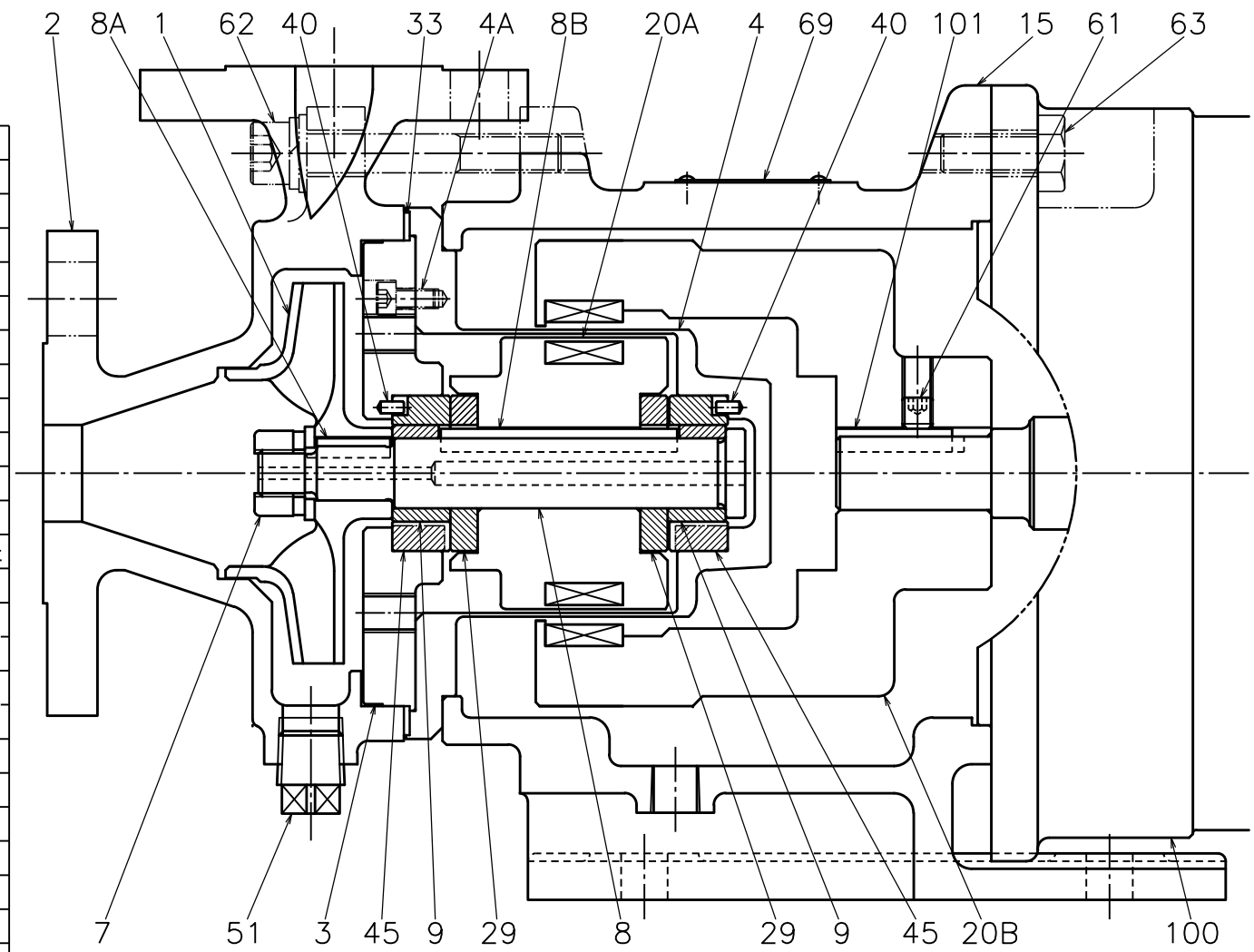
PUMP CODE
 MP210-B54
 MAGNETIC DRIVE
 CENTRIFUGAL PUMP
 OUTLINE DIMENSIONS

WORK No.	
QTY.	
DWG.No.	MP210-B54-X 2
REV.	組 1

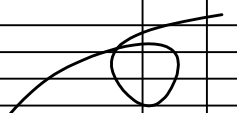
3rd ANGLE PROJECTION SCALE


SANWA HYDROTECH CORP.

承
審
品
機
組 1
控
計



101	COUPLING KEY	—	1		
100	MOTOR	—	1		
69	NAME PLATE	SUS304	1		
63	HEXAGON HEAD BOLT	SUS304	4		
62	HEXAGON SOCKET HEAD CAP SCREW	SUS304	6 ^S		WITH WASHER
61	SET SCREW	SCM435	1		
51	PLUG	SUS304	1		R3/8
45	BUSHING	SiC	2		
40	PIN	SUS316	2		φ3x6L
33	GASKET	PTFE	1		φ120xφ134x1.5t
29	THRUST RING	SiC	2		
	MAGNET	RARE EARTH	1 ^S		
20B	MAGNET COUPLING(M)	FCD	1		K20x6N
	MAGNET	RARE EARTH	1 ^S		
20A	MAGNET COUPLING(P)	SUS304	1		K20N
15	FRAME ADAPTER	FC200	1		
9	SLEEVE	SiC-D	2		
8B	COUPLING KEY	SUS304	1		
8A	IMPELLER KEY	SUS304	1		
8	SHAFT	SUS304	1		
7	IMPELLER NUT	SUS316L	1 ^S		M12, WITH WASHER
4A	HEXAGON SOCKET HEAD CAP SCREW	SUS316L	4		
4	REAR CASING	SUS304	1		
3	CASING COVER	SUS304	1		
2	CASING	SCS13	1		
1	IMPELLER	SCS13	1		
MARK	NAME OF PART	MAT'L	USE No.REQ'D	SPARE	REMARK.

		
NAME OF PART	MAT'L	QTY.
ACCESSORIES		

REV.		
APP'D	H.Miyakoshi	CH. M.Murakami
CHIEF		DWN. M.Murakami
CH'D	M.Murakami	DATE 2019.04.09

PUMP CODE
MP210-B54
MAGNETIC DRIVE
CENTRIFUGAL PUMP

SECTIONAL DRAWING

3rd ANGLE PROJECTION SCALE

SANWA HYDROTECH CORP.

WORK No.	
QTY.	
DWG.No.	MP210-B54-0
REV.	

承認
製品
機組
設計

PUMP DATA SHEET				WORK No.	
1	CUSTOMER			DATE 2019/6/26	
2	USER			AUTH. BY	CHKD BY MADE BY
3	EQUIP' T NAME			H. Miyakoshi	M. M M. Murakami
4	ORDER No.			REV. DATE	LINE No. BY
5	JOB No.			△1 2020/4/1	25 M. Murakami
6	ITEM (PUMP) No.			△2 2021/7/16	27 Y. Kinoshita
7	PUMP NAME				
8	QUANTITY				
9	OPERATING CONDITIONS			CONSTRUCTION	
10	LIQUID			PUMP CODE	MP210-B54
11	SLURRY			MAGNET TYPE	K20x6N
12		(wt%)	(mm)	BEARING	RADIAL : - THRUST : -
13	PH			AUXILIARY PIPING	-
14	PUMPING TEMP.	(-20~130)	(°C)	NOZZLE	SIZE RATING FACING
15	SPEC. GRAVITY	@P. T.	1	SUCTION	25 (mm) JIS 10K RF
16	VAPOUR PRESS.	@P. T.		DISCHARGE	20 (mm) JIS 10K RF
17	VISCOSITY	@P. T.	1 (mPa · s)	IMPELLER DIA. DES.	φ90 (mm)
18	CAPACITY	4.8 (m3/hr)	80 (l/min)	ROTATION VIEWED FROM CPLG END	■CW □CCW
19	DISCH. PRESS.			PERFORMANCE	
20	SUCT. PRESS.			SPEED	2930 (rpm)
21	DIFF. PRESS.			NPSH REQ'D (WATER)	- (m)
22	TOTAL HEAD	9	(m)	DES. EFF.	30 (%)
23	NPSH AVAIL.			DES. BHP	0.39 (kW)
24	CASE DES. TEMP.	130 (°C)	PRESS. 1.0 (MPaG)	MIN. CONTINUOUS FLOW	0.48 (m3/hr) 8 (l/min)
25	INSTALLATION	<input type="checkbox"/> INDOOR	<input type="checkbox"/> OUTDOOR		
26	MOTOR			MATERIALS	
27	TYPE	IKH3	FORM FCKLAW21E	CASING	SCS13
28				IMPELLER	SCS13
29	SPEED	3000 (SYN)	(rpm)	SLEEVE, BUSHING, THRUST RING	SiC-D, SiC, SiC
30	VOLTS/CYCLE	200 (V)	50 (Hz)	SHAFT (HF)	SUS304 (-)
31	RATED OUTPUT/POLES	0.75 (kW)	2 (P)	GASKET	PTFE
32	FRAME	80M	MFR. TOSHIBA	O RING	---
33	PUMP PAINTING				
34	COLOR BODY:	2.5PB4/10	COVER: ---		
35	REMARKS				
36					
37					
38					
39					
40					



〈試験成績表〉

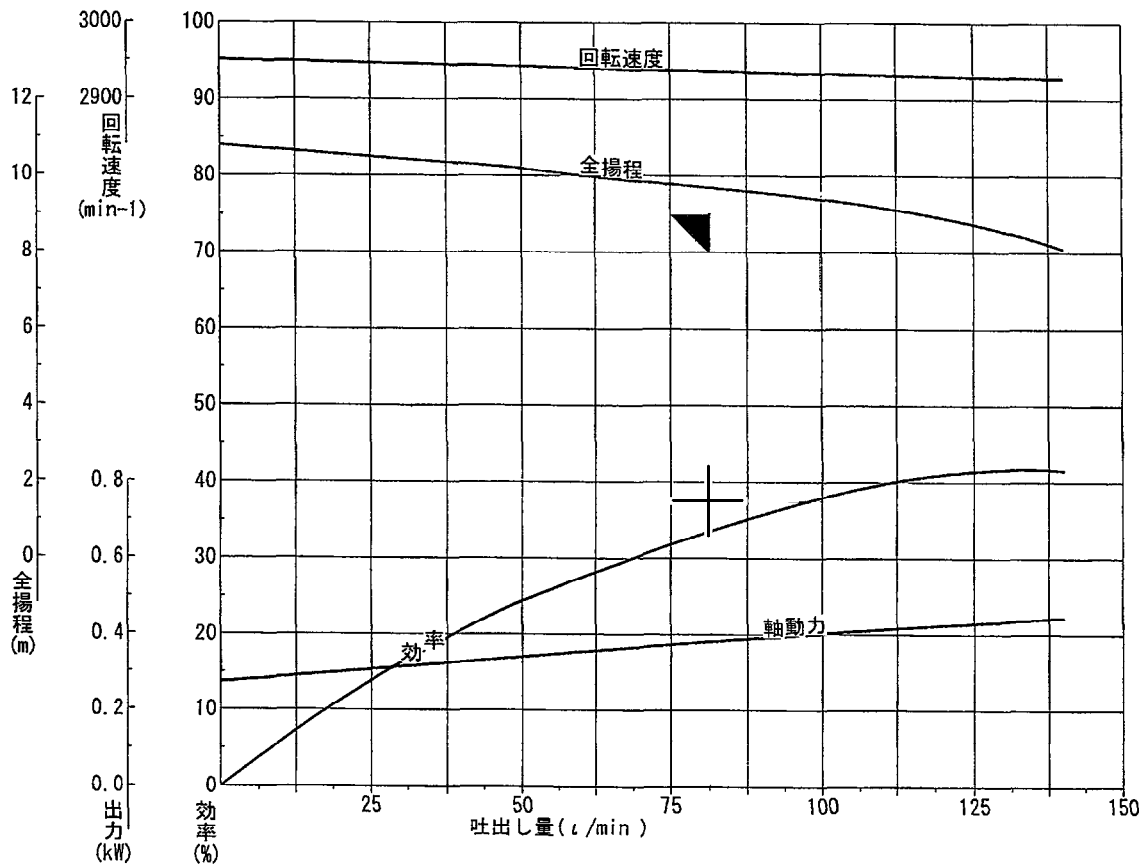
発行日: 2019.05.13
Rev.2 : 2021.08.23

CODE : MP210-B54/B56
PUMP TYPE : MP
PUMP SIZE : 210

規格要目	指定揚液(温度[°C]、比重、粘度) 85/1/1 [mPa·s]	吐出量(L/min)	全揚程(m)	回転速度(min ⁻¹)	原動機出力(kW)	NPSH _{av} /Req (m)
		80	9	2930	0.75	-/-

計測項目	1	2	3	4	5	6	7	8	
回転速度(min ⁻¹)	2951	2943	2934	2931	2928				
水温(°C)	20.7	20.7	20.7	20.8	20.8				
吐出量	測定器の読み(L/min)	0.0	49.0	100.0	119.0	140.0			
	吐出量(L/min)	0.0	49.0	100.0	119.0	140.0			
揚程	吐出しヘッド(m)	11.90	11.00	9.20	8.20	6.70			
	吸込ヘッド(m)	1.26	1.10	0.62	0.35	0.04			
	測点高差(m)	0.16	0.16	0.16	0.16	0.16			
	速度ヘッド(m)	0.000	0.158	0.660	0.934	1.293			
	全揚程(m)	10.8	10.2	9.4	8.9	8.1			
理論動力(kW)	0.000	0.082	0.153	0.173	0.185				
周波数(Hz)	50.0	50.0	50.0	50.0	50.0				
電動機	電圧(V)	205.6	205.5	205.2	205.1	205.1			
	電流(A)	1.862	1.975	2.128	2.183	2.240			
	入力(kW)	0.360	0.431	0.504	0.528	0.553			
	効率(%)	75.8	78.5	80.1	80.4	80.6			
	出力(kW)	0.273	0.338	0.404	0.424	0.446			
軸動力(kW) (比重=1)		0.273	0.338	0.404	0.424	0.446			
	ポンプ効率(%)	0.0	24.1	38.0	40.9	41.5			
	回転換算	吐出量(L/min)							
		全揚程(m)							
		軸動力(kW)							
粘度換算	吐出量(L/min)								
	全揚程(m)								
	軸動力(kW)								
	ポンプ効率(%)								
	マグネットポンプ効率(%)								

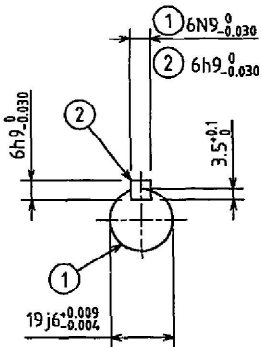
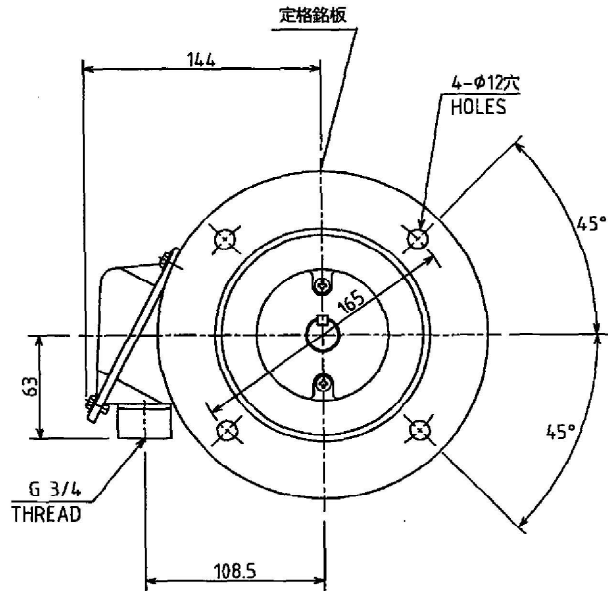
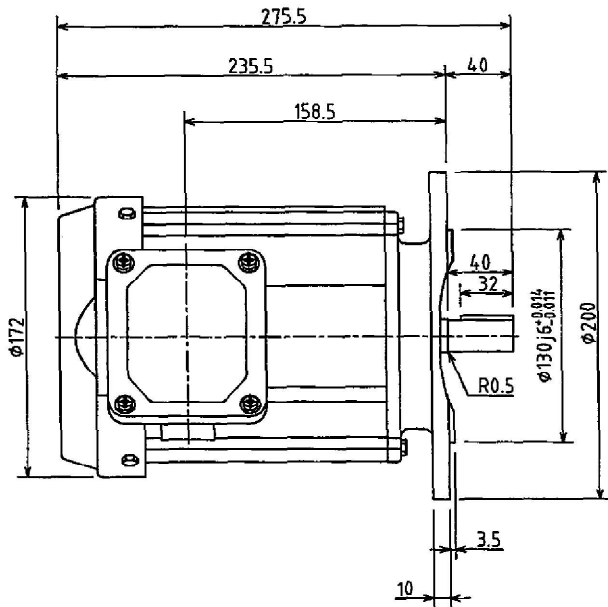
附属試験用	電動機要目
形式	IKH3-FCKLAW21E
出力	(0.75 kW)
周波数(Hz)	(50 Hz)
電圧	(200 V)
電流	(3.2 A)
極数	(2 P)
回転速度	(2870min ⁻¹)
製造番号	62015086
製造業者名	TOSHIBA
試験揚液	常温清水
吐出量測定方法	電磁流量計
室温	(24 °C)
連続運転時間	(20 min)
軸受温度	
軸継手側	(- °C)
反対側	(- °C)
インペラー径	(90 mm)
マグネット形式	K20x6N-80
キャンロス	(0.14 kW)
備考	
試験者名	藤井
製造業者名	三和ハイドロテック(株)



3HDA009211

図面番号 DRAWING NO.

REVISION MARK



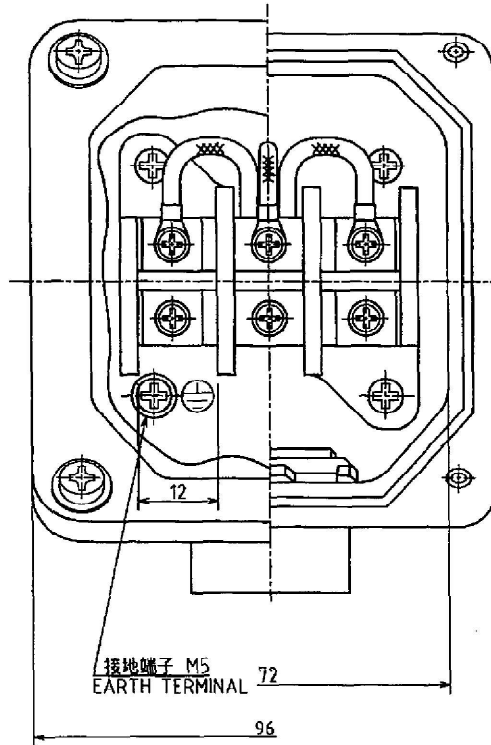
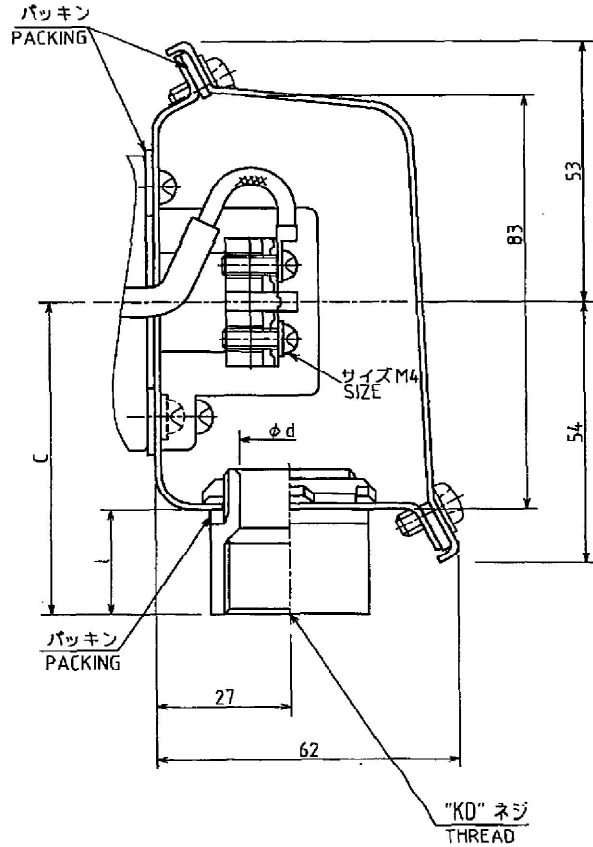
マンセル3.74BG3.04/1.25近似色(深緑)

保護方式 PROTECTION
IP55

出力 OUTPUT 0.75 kW	極数 POLES 2	電圧 VOLTS 200/200/220 V	周波数 FREQ. 50/60/60 Hz	回転速度 FULL LOAD SPEED 2870/3445/3480 min ⁻¹	軸受 BEARING 負荷側 LOAD SIDE 6204ZZC3 反負荷側 OPPL.SIDE 6204ZZC3	概略質量 APPROX. MASS 本体 MOTOR 13.5 kg
形 TYPE IKH3	式 FORM FCKLAW21E	耐熱クラス THERMAL CLASS 155(F)	定格 RATING S1	枠番号 FRAME 80M	フランジ番号 FLANGE FF165	
記号 MARK	年月日 DATE	承認 APPROVED BY T.FURUICHI Dec. 26 '19	承認 APPROVED BY R.KATSUKI Dec. 26 '19	名称 TITLE 三相誘導電動機外形図 OUTLINE FOR THREE PHASE INDUCTION MOTOR		
承認 APPROVED BY	変更者 REVISED BY	尺度 SCALE N.T.S.	設計 DESIGNED BY N.INAMURA Dec. 26 '19	製図 DRAWN BY Y.HIROTA Dec. 26 '19		
記事 CONTENTS	保管 REGISTERED	単位 UNITS mm	TOSHIBA 東芝産業機器システム株式会社 TOSHIBA INDUSTRIAL PRODUCTS AND SYSTEMS CORPORATION			
図面番号 DRAWING NO. 3HDA009211			REV. MARK			

3HDZ000011

REV. MARK
②



PNNo.	KD	C	l	d
1	G1	65	23	25
2	G $\frac{3}{4}$	63	21	20
3	G $\frac{1}{2}$	63	21	15

適用枠番号 63M ~ 112M
FRAME NO.

	②	①	記号MARK
	Feb. 14. 17	Aug. 10. 16	年月DATE
	T.FURUICHI	T.FURUICHI	承認APPROVED BY
	S.TAKAHASHI	S.ASAI	変更者REVISED BY
	CHG. COMPANY NAME.	ADD PNO.	記本CONTENTS
			保管REGISTERED

 尺貫 SCALE N.T.S. 単位 UNITS mm	承認 APPROVED BY T.FURUICHI Dec. 4. 12	検図 CHECKED BY N.TOJIMA Dec. 4. 12
	設計 DESIGNED BY M.OGAWA Dec. 4. 12	製図 DRAWN BY S.MATSUBARA Dec. 4. 12
	TOSHIBA 東芝産業機器システム株式会社 TOSHIBA INDUSTRIAL PRODUCTS AND SYSTEMS CORPORATION	
	保管 REGISTERED	

名称 TITLE 端子箱詳細図 CONSTRUCTION OF TERMINAL BOX
鋼板製 63M~112M 屋外形
図面番号 DRAWING NO. 3HDZ000011
REV. MARK ②